



### Certification Summary Information Report

<b>Test Group</b>		TTYXV00.0D16		<b>Evaporative/Refueling Family</b>			--				
<b>Models Covered by this Certificate</b>											
Carline Manufacturer	Division	Carline	Certification Region Code(s)	Drive System	Trans - Type	- # of Gears	Trans - Lockup				
Toyota Motor Corporation	2 - LEXUS	39 - ES 500e AWD(21inch Wheels)	Federal	All Wheel Drive	Automatic	1	No				
Toyota Motor Corporation	2 - LEXUS	39 - ES 500e AWD(21inch Wheels)	California + CAA Section 177 states	All Wheel Drive	Automatic	1	No				
Toyota Motor Corporation	2 - LEXUS	34 - ES 500e AWD(19inch Wheels)	Federal	All Wheel Drive	Automatic	1	No				
Toyota Motor Corporation	2 - LEXUS	34 - ES 500e AWD(19inch Wheels)	California + CAA Section 177 states	All Wheel Drive	Automatic	1	No				
<b>Engine Description</b>											
<b>Hybrid Type</b>		--		<b>Hybrid Description</b>		--					
<b>Engine Type</b>		--		<b>Mfr Engine Description</b>		--					
<b>Engine Block Arrangement</b>		--		<b>Mfr Engine Block Arrangement Description</b>		--					
<b>Camless Valvetrain Indicator</b>		--		<b>Oil Viscosity/Classification</b>							
<b>Number of Cylinders/Rotors</b>		--		<b>Mechanically Variable Compression Ratio Indicator</b>		--					
<b>After Treatment Device(s) (ATD)</b>											
<b>Mfr After Treatment Device (ATD) Comments</b>		--									
<b>Direct Ozone Reduction (DOR) Device</b>		--									
<b>Mfr Emission Control Device Comments</b>		--									
<b>Official Test Numbers</b>											
Test Group	Fuel	FTP	US06	SC03	Cold CO	Highway	EPA City Litmus Value	EPA City Litmus Threshold	EPA Highway Litmus Value	EPA Highway Litmus Threshold	CREE Weighting Factor
Electricity		--	--	--	--	--	--	--	--	--	--

## Certification Summary Information Report

Test Group	TTYXV00.0D16	Evaporative/Refueling Family	--
<b>Hybrid Electric Vehicle And Fuel Cell Information</b>			
Rechargeable Energy Storage System	Battery(s)	Rechargeable Energy Storage System, if Other	--
Battery Type	Lithium Ion	Number of Battery Packs	1
Total Voltage of Battery Packs	385	Battery Energy Capacity	200
Battery Specific Energy	160	Battery Charger Type	On-Board
Number of Capacitors	--	Capacitor Rating (In Farads)	--
Mfr Capacitor Comments	--		
Hydraulic System Description	--		
Regenerative Braking Type	Electrical Regen Brake		
Regenerative Braking Source	Both	Driver Controlled Regenerative Braking	Yes
Mfr Regenerative Braking Description	--		
Drive Motor(s)/Generator(s)	2		
Motor/Generator Type 1	AC Synchronous	Rated Motor/Generator Power	167
Motor/Generator Type 2	AC Synchronous	Rated Motor/Generator Power	88
Mfr Fuel Cell Description	--		
Fuel Cell On-Board H2 Storage Capacity (kg)	--	Usable H2 Fill Capacity (kg)	--
Mfr Hybrid Electric/ Electric Vehicle Comments	--		

### Certification Summary Information Report

<b>Test Group</b>	TTYXV00.0D16	<b>Evaporative/Refueling Family</b>	--
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**Emission Data Vehicle Information**

Vehicle ID / Configuration	26-XZ4E / 0	Manufacturer Vehicle Configuration Number	0
Original Test Group Name	TTYXV00.0D16	Original Evaporative/Refueling Family	--
Original Test Vehicle Model Year	2026		
<b>Vehicle Model</b>			
Represented Test Vehicle Make	LEXUS	Represented Test Vehicle Model	ES 500e AWD (19inch Wheels)

**Leak Family Details**

Leak Family Identifier	--	Leak Family Name	--
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**Drive Sources and Fuel System Details**

Drive Source and Fuel#	Drive Source	Fuel
1	Electric Motor	Electricity

Hybrid Indicator	No	Multiple Fuel Combustion	--
Multiple Fuel Storage	--	Rechargeable Energy Storage System Indicator	Yes
Fuel Cell Indicator	No	Rechargeable Energy Storage System, if 'Other'	--
Rechargeable Energy Storage System	Battery(s)		
Off-board charge Capable Indicator	Yes	Odometer Correction Factor	1
Odometer Correction -- Initial	0	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor	
Odometer Correction Sign			
Odometer Correction Units	Miles	Rated Horsepower	182
Engine Code	01	Air Aspiration Method, if 'Other'	
Displacement (liters)	0.001	Air Aspiration Device Configuration	--
Air Aspiration Method	Naturally Aspirated	Drive Mode While Testing	4-Wheel Drive
Number of Air Aspiration Devices	--	Aged Emission Components	4,000 (mi)
Charge Air Cooler Type	N/A	Equivalent Test Weight (pounds)	5250
Shift Indicator Light Usage	Not equipped	N/V Ratio	0
Curb Weight (lbs)	4950	# of Transmission Gears	1
GVWR (lbs)	--	Creeper Gear	No
Axle Ratio	0		
Transmission Type	Automatic		
Transmission Lockup	No		

**Dynamometer Coefficients:**

Coefficient Category	Target Coefficients			Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	
City/Highway/Evap	32.05	0.21323	0.015813	0	0	0.015813	11

Emission Control Device Comments --

### Certification Summary Information Report

<b>Test Group</b>	TTYXV00.0D16	<b>Evaporative/Refueling Family</b>	--
<b>Manufacturer Test Vehicle Comments</b>	Front Motor Power - 64 kW; Rear Motor Power - 71.9 kW.		

**Certification Summary Information Report**

<b>Test Group</b>	TTYXV00.0D16	<b>Evaporative/Refueling Family</b>	--
<b>Test #</b>	<b>TTYX10092248</b>	<b>Test Procedure</b>	<b>77 - Multi-Cycle Test (MCT)</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	62 - Electricity
<b>Test Date</b>	08/27/2025	<b>Fuel</b>	N/A
<b>Fuel Batch ID</b>	--	<b>Fuel Calibration Number</b>	--
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	Toyota Motor Corporation		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	2039	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	Yes	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	No		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	Yes

**PHEV/EV Charge Depleting Test Information**

<b>Recharge Event Voltage</b>	240	<b>Recharge Event Energy (kiloWatt-hours)</b>	80.6229
<b>Charge Depleting Range (Calculated miles)</b>	415.439	<b>Charge Depleting Range (Actual miles)</b>	415.439
<b>Charge Depleting Range Highway (Calculated miles)</b>	369.45	<b>Derived 5-Cycle Coefficient Model Year</b>	--
<b>All Electric Range Unadjusted (miles)</b>	--	<b>Equivalent All Electric Range (miles)</b>	415.439
<b>Number of Charge Depleting Bags/Phases Conducted</b>	8	<b>Transition Bag/Phase Number</b>	--

**Charge Depleting Bag/Phase #1**

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	7.445104
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	0.35
Drive Trace Energy Economy Rating	0.01
Drive Trace Inertia Work Ratio Rating	0.73
Integrated DC KW-HRS	1.4392701
Manufacturer Fuel Economy	19.3317665

**Charge Depleting Bag/Phase #2**

## Certification Summary Information Report

Test Group	TTYXV00.0D16	Evaporative/Refueling Family	--																
<table border="1"> <thead> <tr> <th>Test Result/Emission Name</th> <th>Unrounded Test Result</th> </tr> </thead> <tbody> <tr> <td>Actual Distance Driven (miles)</td> <td>10.2564397</td> </tr> <tr> <td>Carbon-Related Exhaust Emissions</td> <td>0</td> </tr> <tr> <td>Drive Trace Absolute Speed Change Rating</td> <td>0.89</td> </tr> <tr> <td>Drive Trace Energy Economy Rating</td> <td>-0.11</td> </tr> <tr> <td>Drive Trace Inertia Work Ratio Rating</td> <td>1.32</td> </tr> <tr> <td>Integrated DC KW-HRS</td> <td>2.077902</td> </tr> <tr> <td>Manufacturer Fuel Economy</td> <td>20.2594862</td> </tr> </tbody> </table>				Test Result/Emission Name	Unrounded Test Result	Actual Distance Driven (miles)	10.2564397	Carbon-Related Exhaust Emissions	0	Drive Trace Absolute Speed Change Rating	0.89	Drive Trace Energy Economy Rating	-0.11	Drive Trace Inertia Work Ratio Rating	1.32	Integrated DC KW-HRS	2.077902	Manufacturer Fuel Economy	20.2594862
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<b>Charge Depleting Bag/Phase #3</b>																			
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<b>Charge Depleting Bag/Phase #5</b>																			
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Integrated DC KW-HRS	1.2887809																		
Manufacturer Fuel Economy	17.3165694																		
<b>Charge Depleting Bag/Phase #6</b>																			

## Certification Summary Information Report

<b>Test Group</b>	TTYXV00.0D16	Evaporative/Refueling Family	--
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Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	10.2543201
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	1.32
Drive Trace Energy Economy Rating	0.04
Drive Trace Inertia Work Ratio Rating	1.84
Integrated DC KW-HRS	1.9695509
Manufacturer Fuel Economy	19.2070353

**Charge Depleting Bag/Phase #7**

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	7.4603758
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	1.03
Drive Trace Energy Economy Rating	0.34
Drive Trace Inertia Work Ratio Rating	1.86
Integrated DC KW-HRS	1.2931504
Manufacturer Fuel Economy	17.333582

**Charge Depleting Bag/Phase #8**

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	33.3440067
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	0
Drive Trace Energy Economy Rating	0
Drive Trace Inertia Work Ratio Rating	0
Integrated DC KW-HRS	8.1971835
Manufacturer Fuel Economy	24.5836788

**Manufacturer Test Comments**

To avoid system rejection, we are substituting the value of EPA-Calculated UDDS Range (TI-76) into the Manufacturer-Calculated Charge Depleting Range (Calculated Miles) (TI-18.6.1). This will be corrected later.

### Certification Summary Information Report

<b>Test Group</b>	TTYXV00.0D16	<b>Evaporative/Refueling Family</b>	--						
<b>Emission Data Vehicle Information</b>									
<b>Vehicle ID / Configuration</b>	26-XZ4E / 1	<b>Manufacturer Vehicle Configuration Number</b>	1						
<b>Original Test Group Name</b>	TTYXV00.0D16	<b>Original Evaporative/Refueling Family</b>	--						
<b>Original Test Vehicle Model Year</b>	2026								
<b>Vehicle Model</b>									
<b>Represented Test Vehicle Make</b>	LEXUS	<b>Represented Test Vehicle Model</b>	ES 500e AWD (21inch Wheels)						
<b>Leak Family Details</b>									
<b>Leak Family Identifier</b>	--	<b>Leak Family Name</b>	--						
<b>Drive Sources and Fuel System Details</b>									
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">Drive Source and Fuel#</th> <th style="width: 33%;">Drive Source</th> <th style="width: 33%;">Fuel</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">Electric Motor</td> <td style="text-align: center;">Electricity</td> </tr> </tbody> </table>				Drive Source and Fuel#	Drive Source	Fuel	1	Electric Motor	Electricity
Drive Source and Fuel#	Drive Source	Fuel							
1	Electric Motor	Electricity							
<b>Hybrid Indicator</b>	No	<b>Multiple Fuel Combustion</b>	--						
<b>Multiple Fuel Storage</b>	--	<b>Rechargeable Energy Storage System Indicator</b>	Yes						
<b>Fuel Cell Indicator</b>	No	<b>Rechargeable Energy Storage System, if 'Other'</b>	--						
<b>Rechargeable Energy Storage System</b>	Battery(s)								
<b>Off-board charge Capable Indicator</b>	Yes	<b>Odometer Correction Factor</b>	1						
<b>Odometer Correction -- Initial</b>	0								
<b>Odometer Correction Sign</b>	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor								
<b>Odometer Correction Units</b>	Miles								
<b>Engine Code</b>	01	<b>Rated Horsepower</b>	182						
<b>Displacement (liters)</b>	0.001	<b>Air Aspiration Method, if 'Other'</b>							
<b>Air Aspiration Method</b>	Naturally Aspirated	<b>Air Aspiration Device Configuration</b>	--						
<b>Number of Air Aspiration Devices</b>	--	<b>Drive Mode While Testing</b>	4-Wheel Drive						
<b>Charge Air Cooler Type</b>	N/A	<b>Aged Emission Components</b>	4,000 (mi)						
<b>Shift Indicator Light Usage</b>	Not equipped	<b>Equivalent Test Weight (pounds)</b>	5250						
<b>Curb Weight (lbs)</b>	4995	<b>N/V Ratio</b>	0						
<b>GVWR (lbs)</b>	--								
<b>Axle Ratio</b>	0	<b># of Transmission Gears</b>	1						
<b>Transmission Type</b>	Automatic	<b>Creeper Gear</b>	No						
<b>Transmission Lockup</b>	No								
<b>Dynamometer Coefficients:</b>									
<b>Target Coefficients</b>			<b>Set Coefficients</b>						
<b>Coefficient Category</b>	<b>A (lbf)</b>	<b>B (lbf/mph)</b>	<b>C (lbf/mph**2)</b>						
<b>City/Highway/Evap</b>	33.622	0.21377	0.015842						
	-2.422	0.11964	0.01459						
			<b>EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients</b>						
			11.2						
<b>Emission Control Device Comments</b>	--								

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<b>Test Group</b>	TTYXV00.0D16	<b>Evaporative/Refueling Family</b>	--
<b>Manufacturer Test Vehicle Comments</b>	Front Motor Power - 64 kW; Rear Motor Power - 71.9 kW.		

**Certification Summary Information Report**

<b>Test Group</b>	TTYXV00.0D16	<b>Evaporative/Refueling Family</b>	--
<b>Test #</b>	<b>TTYX10092247</b>	<b>Test Procedure</b>	<b>77 - Multi-Cycle Test (MCT)</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	62 - Electricity
<b>Test Date</b>	09/18/2025	<b>Fuel</b>	N/A
<b>Fuel Batch ID</b>	--	<b>Fuel Calibration Number</b>	--
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	Toyota Motor Corporation		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	2561	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	Yes	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	No		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	Yes

**PHEV/EV Charge Depleting Test Information**

<b>Recharge Event Voltage</b>	240	<b>Recharge Event Energy (kiloWatt-hours)</b>	80.9661
<b>Charge Depleting Range (Calculated miles)</b>	414.912	<b>Charge Depleting Range (Actual miles)</b>	414.912
<b>Charge Depleting Range Highway (Calculated miles)</b>	367.7	<b>Derived 5-Cycle Coefficient Model Year</b>	--
<b>All Electric Range Unadjusted (miles)</b>	--	<b>Equivalent All Electric Range (miles)</b>	414.912
<b>Number of Charge Depleting Bags/Phases Conducted</b>	8	<b>Transition Bag/Phase Number</b>	--

**Charge Depleting Bag/Phase #1**

Test Result/Emission Name	Unrounded Test Result
Actual Distance Driven (miles)	7.44453
Carbon-Related Exhaust Emissions	0
Drive Trace Absolute Speed Change Rating	0.14
Drive Trace Energy Economy Rating	-0.27
Drive Trace Inertia Work Ratio Rating	0.46
Integrated DC KW-HRS	1.4563128
Manufacturer Fuel Economy	19.5621856

**Charge Depleting Bag/Phase #2**

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Manufacturer Fuel Economy	20.4015859																		
<b>Charge Depleting Bag/Phase #3</b>																			
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Drive Trace Inertia Work Ratio Rating	0.36																		
Integrated DC KW-HRS	1.3307085																		
Manufacturer Fuel Economy	17.8688202																		
<b>Charge Depleting Bag/Phase #4</b>																			
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<b>Charge Depleting Bag/Phase #6</b>																			

## Certification Summary Information Report

Test Group	TTYXV00.0D16	Evaporative/Refueling Family	--																
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<b>Manufacturer Test Comments</b>	--																		
<b>Fuel Properties</b>																			

### Certification Summary Information Report

<b>Test Group</b>	TTYXV00.0D16		<b>Evaporative/Refueling Family</b>				--			
<b>Consolidated List of Standards</b>										
<b>Exhaust Standards</b>										
<b>Cert Region</b>	Federal		<b>Cert/In-Use Code</b>				Cert			
<b>Vehicle Class</b>	LDV/Passenger Car		<b>Standard Level</b>				Federal Tier 3 Bin 0			
<b>Fuel</b>	Electricity		<b>Test Procedure</b>				Charge Depleting UDDS			
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>	
150,000 miles	CREE	--	--	--	--	--	--	0	999.9999	
150,000 miles	MFR FE	--	--	--	--	--	--	--	999.9999	
<b>Cert Region</b>	California + CAA Section 177 states		<b>Cert/In-Use Code</b>				Cert			
<b>Vehicle Class</b>	LDV/Passenger Car		<b>Standard Level</b>				California ZEV			
<b>Fuel</b>	Electricity		<b>Test Procedure</b>				California fuel 3-day exhaust			
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>	
150,000 miles	CO	--	--	--	--	--	--	--	0.0	
<b>Cert Region</b>	California + CAA Section 177 states		<b>Cert/In-Use Code</b>				Cert			
<b>Vehicle Class</b>	LDV/Passenger Car		<b>Standard Level</b>				California ZEV			
<b>Fuel</b>	Electricity		<b>Test Procedure</b>				Charge Depleting UDDS			
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>	
150,000 miles	MFR FE	--	--	--	--	--	--	--	999.9999	
<b>Cert Region</b>	Federal		<b>Cert/In-Use Code</b>				Cert			
<b>Vehicle Class</b>	LDV/Passenger Car		<b>Standard Level</b>				Federal Tier 3 Bin 0			
<b>Fuel</b>	Electricity		<b>Test Procedure</b>				Charge Depleting Highway			
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>	
150,000 miles	CREE	--	--	--	--	--	--	0	999.9999	
150,000 miles	MFR FE	--	--	--	--	--	--	0	999.9999	

### Certification Summary Information Report

<b>Test Group</b>		TTYXV00.0D16			<b>Evaporative/Refueling Family</b>			--		
<b>Cert Region</b>		Federal			<b>Cert/In-Use Code</b>			Cert		
<b>Vehicle Class</b>		LDV/Passenger Car			<b>Standard Level</b>			Federal Tier 3 Bin 0		
<b>Fuel</b>		Electricity			<b>Test Procedure</b>			Federal fuel 3-day exhaust		
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>	
150,000 miles	CO	--	--	--	--	--	--	0	0.0	
<b>Cert Region</b>		California + CAA Section 177 states			<b>Cert/In-Use Code</b>			Cert		
<b>Vehicle Class</b>		LDV/Passenger Car			<b>Standard Level</b>			California ZEV		
<b>Fuel</b>		Electricity			<b>Test Procedure</b>			Charge Depleting Highway		
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>	
150,000 miles	MFR FE	--	--	--	--	--	--	0	999.9999	

## Certification Summary Information Report

Test Group	TTYXV00.0D16	Evaporative/Refueling Family	--
<b>Glossary</b>			
<b>Useful Life</b>			
4	4,000 miles	120	120,000 miles
50	50,000 miles	150	150,000 miles
100	100,000 miles		
<b>Emission Name</b>			
HC-TOTAL	Total Hydrocarbon	AS-VOLT	Average System Voltage
CO	Carbon Monoxide	CO2 BAG 1	Bag 1 Carbon Dioxide
CO2	Carbon dioxide	CO2 BAG 2	Bag 2 Carbon Dioxide
CREE	Carbon-Related Exhaust Emissions	CO2 BAG 3	Bag 3 Carbon Dioxide
OPT-CREE	Optional Carbon-Related Exhaust Emissions	CO2 BAG 4	Bag 4 Carbon Dioxide
NOX	Nitrogen Oxide	NMOG+NOX	Non-methane organic gases plus Nitrogen Oxides
PM	Particulate Matter	NMOG+NOX-COMP	SFTP Composite Non-methane Organic Gases + Nitrogen Oxides
PM-COMP	SFTP Composite Particulate Matter	DT-IWRR	Drive Trace Inertia Work Ratio Rating
HC-NM	Non-methane Hydrocarbon	DT-ASCR	Drive Trace Absolute Speed Change Rating
OMHCE	Organic material Hydrocarbon Equivalent	DT-EER	Drive Trace Energy Economy Rating
OMNMHCE	Organic material non-methane HC equivalent	COMB-CREE	Combined Carbon-Related Exhaust Emissions
NMOG	Non-methane organic gases	COMB-OPT-CREE	Combined Optional Carbon-Related Exhaust Emissions
HCHO	Formaldehyde	HC-TOTAL-EQUIV	Total Hydrocarbon equivalent - Evap only
H3C2HO	Acetaldehyde	METHANE-COMB	Combined CH4 for HD 2b/3 vehicles only
HC-NM+NOX	SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03	N2O-COMB	Combined Nitrous Oxide for HD 2b/3 vehicles only
HC-NM+NOX-COMP	SFTP Composite Non-methane Hydrocarbon + Nitrogen Oxides	LEAK-DIA	Effective Leak Diameter (inches)
CO-COMP	SFTP Composite Carbon Monoxide	LEAK-GAS CAP	Gas Cap Leakage (cc/min)
ETHANOL	C2H5OH - Ethanol	CO2-COMB	Combined Carbon Dioxide for HD 2b/3 Vehicles Only
FE BAG 1	Bag 1 Fuel Economy	KW-HRS	Integrated DC KW-HRS
FE BAG 2	Bag 2 Fuel Economy	CH4 BAG 1	Bag 1 Methane
FE BAG 3	Bag 3 Fuel Economy	CH4 BAG 2	Bag 2 Methane
FE BAG 4	Bag 4 Fuel Economy	CH4 BAG 3	Bag 3 Methane
MFR FE	Manufacturer Fuel Economy	CH4 BAG 4	Bag 4 Methane
HC	Hydrocarbon for Running Loss and ORVR	CO BAG 1	Bag 1 Carbon Monoxide
METHANE	CH4 - Methane	CO BAG 2	Bag 2 Carbon Monoxide
METHANOL	CH3OH - Methanol	CO BAG 3	Bag 3 Carbon Monoxide
N2O	Nitrous Oxide	CO BAG 4	Bag 4 Carbon Monoxide
SPITBACK	Spitback Hydrocarbon in grams	NMOG BAG 1	Bag 1 Non-methane organic gases
AMP-HRS	Integrated Amp-hours	NMOG BAG 2	Bag 2 Non-methane organic gases
START-SOC	System Start State of Charge Watt-hours	NMOG BAG 3	Bag 3 Non-methane organic gases
END-SOC	System End State of Charge Watt-hours	NMOG BAG 4	Bag 4 Non-methane organic gases
ACT-DISTANCE	Actual Distance Driven (miles)		

Certification Region

## Certification Summary Information Report

Test Group	TTYXV00.0D16	Evaporative/Refueling Family	
CA	California + CAA Section 177 states	FA	Federal
<b>Exhaust Emission Standard Level</b>			
B1	Federal Tier 2 Bin 1	T3B160	Federal Tier 3 Bin 160
B2	Federal Tier 2 Bin 2	T3B125	Federal Tier 3 Bin 125
B3	Federal Tier 2 Bin 3	T3B110	Federal Tier 3 Transitional Bin 110
B4	Federal Tier 2 Bin 4	T3B85	Federal Tier 3 Transitional Bin 85
B5	Federal Tier 2 Bin 5	T3SULEV30	Federal Tier 3 Transitional LEV-II SULEV30 Carryover
B6	Federal Tier 2 Bin 6	T3B70	Federal Tier 3 Bin 70
B7	Federal Tier 2 Bin 7	T3B50	Federal Tier 3 Bin 50
B8	Federal Tier 2 Bin 8	T3B30	Federal Tier 3 Bin 30
B9	Federal Tier 2 Bin 9	T3B20	Federal Tier 3 Bin 20
B10	Federal Tier 2 Bin 10	T3B0	Federal Tier 3 Bin 0
B11	Federal Tier 2 Bin 11	HDV2B395	Federal Tier 3 HD Class 2b Transitional Bin 395
HDV1	HDV1 (Federal HD chassis Class 2b GVW 8501-10000)	HDV2B340	Federal Tier 3 HD Class 2b Transitional Bin 340
HDV2	HDV2 (Federal HD chassis Class 3 GVW 10001-14000)	HDV2B250	Federal Tier 3 HD Class 2b Bin 250
L2	California LEV-II LEV	HDV2B200	Federal Tier 3 HD Class 2b Bin 200
L2OP	California LEV-II LEV Optional	HDV2B170	Federal Tier 3 HD Class 2b Bin 170
U2	California LEV-II ULEV	HDV2B150	Federal Tier 3 HD Class 2b Bin 150
S2	California LEV-II SULEV	HDV2B0	Federal Tier 3 HD Class 2b Bin 0
ZEV	California ZEV	HDV3B630	Federal Tier 3 HD Class 3 Transitional Bin 630
OT	Other	HDV3B570	Federal Tier 3 HD Class 3 Transitional Bin 570
T1	Federal Tier 1	HDV3B400	Federal Tier 3 HD Class 3 Bin 400
PZEV	California PZEV	HDV3B270	Federal Tier 3 HD Class 3 Bin 270
L2LEV160	California LEV-II LEV160	HDV3B230	Federal Tier 3 HD Class 3 Bin 230
L2ULEV125	California LEV-II ULEV125	HDV3B200	Federal Tier 3 HD Class 3 Bin 200
L2SULEV30	California LEV-II SULEV30	HDV3B0	Federal Tier 3 HD Class 3 Bin 0
L2LEV395	California LEV-II LEV395	L4SULEV100	California LEV-IV SULEV100
L2ULEV340	California LEV-II ULEV340	L4SULEV125	California LEV-IV SULEV125
L2LEV630	California LEV-II LEV630	L4SULEV15	California LEV-IV SULEV15
L2ULEV570	California LEV-II ULEV570	L4SULEV150	California LEV-IV SULEV150
L3LEV160	California LEV-III LEV160	L4SULEV170	California LEV-IV SULEV170
L3ULEV125	California LEV-III ULEV125	L4SULEV175	California LEV-IV SULEV175
L3ULEV70	California LEV-III ULEV70	L4SULEV20	California LEV-IV SULEV20
L3ULEV50	California LEV-III ULEV50	L4SULEV200	California LEV-IV SULEV200
L3SULEV30	California LEV-III SULEV30	L4SULEV230	California LEV-IV SULEV230
L3SULEV20	California LEV-III SULEV20	L4SULEV25	California LEV-IV SULEV25
L3LEV395	California LEV-III LEV395	L4SULEV30	California LEV-IV SULEV30
L3ULEV340	California LEV-III ULEV340	L4SULEV75	California LEV-IV SULEV75
L3ULEV250	California LEV-III ULEV250	L4SULEV85	California LEV-IV SULEV85
L3ULEV200	California LEV-III ULEV200	L4ULEV125	California LEV-IV ULEV125

## Certification Summary Information Report

Test Group		TTYXV00.0D16	Evaporative/Refueling Family		--
L3SULEV170	California LEV-III SULEV170		L4ULEV200	California LEV-IV ULEV200	
L3SULEV150	California LEV-III SULEV150		L4ULEV250	California LEV-IV ULEV250	
L3LEV630	California LEV-III LEV630		L4ULEV270	California LEV-IV ULEV270	
L3ULEV570	California LEV-III ULEV570		L4ULEV40	California LEV-IV ULEV40	
L3ULEV400	California LEV-III ULEV400		L4ULEV400	California LEV-IV ULEV400	
L3ULEV270	California LEV-III ULEV270		L4ULEV50	California LEV-IV ULEV50	
L3SULEV230	California LEV-III SULEV230		L4ULEV60	California LEV-IV ULEV60	
L3SULEV200	California LEV-III SULEV200		L4ULEV70	California LEV-IV ULEV70	
<b>Transmission Type Code</b>					
AMS	Automated Manual- Selectable (e.g. Automated Manual with paddles)		M	Manual	
A	Automatic		OT	Other	
AM	Automated Manual		SA	Semi-Automatic	
CVT	Continuously Variable		SCV	Selectable Continuously Variable (e.g. CVT with paddles)	
<b>Drive System Code</b>					
4	4-Wheel Drive		P	Part-time 4-Wheel Drive	
F	2-Wheel Drive, Front		A	All Wheel Drive	
R	2-Wheel Drive, Rear				
<b>Additional Terms and Acronyms</b>					
AFC	Alternative Fuel Converter		ICI	Independent Commercial Importer	
CSI	Certificate Summary Information		ORVR	Onboard Refueling Vapor Recovery	
DF	Deterioration Factor		SIL	Shift Indicator Light	
Evap	Evaporation, Evaporative		Trans	Transmission	